

# Benchmark Suite For UMA Platforms

## PRODUCTIVITY

- BAPCo SYSmark 2007 - 1.0.1
- PC World WorldBench 6.0 (Beta v2)
- Instant Effects OfficeFX (4x AA) version 2.6
- Futuremark Corp. PCMark Vantage
- Windows send to zip (Windows RTM)

## DIGITAL MEDIA

- Apple iTunes (WAV-to-AAC) - 7.6.0.29
- POV-Ray RTR - 3.7 beta 25
- MainConcept Encode version 1.0.0.0
- Apple iTunes (encode WMV video-clip for iPod) – 7.6.0.29
- Windows Media Encoder 9 -8.1.1.0
- Nero-Recode + Showtime (portable AVC) – 8.2.8.0
- Nero-Recode (portable AVC) – 8.2.2.0
- Microsoft® Windows® Movie Maker (jpg) Vista 32

## GAMING

- Futuremark Corp. 3DMark®06 - Patch 1.1.0 (CPU)
- Futuremark Corp. 3DMark®06 - Patch 1.1.0 (Software Vertex Shaders)
- Id Software, Quake 4 Arena - 1.4.2
- Ubisoft, Far Cry (Pier) - 1.4
- Crytek, Crysis (CPU) -version 1.1
- Monolith Productions, FEAR – version 1.08
- Epic Games, Unreal Tournament 3 – version 1.1
- Massive Entertainment, World in Conflict- version 1.004
- Id Software, Enemy Territory- Quakewars- version 1.4

### *Benchmark test (display) resolution details*

Office Productivity tests:	1280x1024 resolution
Digital Media tests:	1280x1024 resolution
Gaming:	1024x768 resolution

# Benchmarks Used

Office Productivity	Version	Description
PC WorldBench 6 BETA	v6 BETA 2	Industry standard benchmark
SYSmark® 2007 Preview	2007-release	Preview release of the next generation of this family of industry standard benchmarks.
Office FX	V2.6	Benchmark included in Office FX software by manufacturer.
WinRAR	v3.7.1	Compression of 500MB of common files (mp3, doc, etc.) via WinRAR utility.
Windows send-to zip	Windows Vista native zip tool	Compression of 500MB of common files (mp3, doc, etc.) with Windows Vista native zip compression feature.
PCMark Vantage	Gold	Industry standard benchmark
Digital Media		
Nero	V8.2.8.0	HD Video file transcode from Apple QuickTime (mov) to MPEG4 file for viewing on mobile devices.
iTunes ACC	v7.6.0.29	iTunes native lossless codec (AAC) from pre-ripped WAV files, such as those from a CD.
POV-Ray Raytracer	3.7 BETA v25	Real-time ray tracing, essentially the computation of light as it goes from source to surface, of a digital image to produce texture and lighting effects.
Movie Maker "European Vacation"	Movie Maker in Windows Vista 32	Set of high resolution vacation digital pictures rendered into WMV-based digital slide show, with transitions.
Windows Media Encoder	9	Playback performance metric
Main Concepts Encode	1.0.0.0	Using the Main Concepts codec to render a multimedia file
iTunes	v7.6.0.29	Using the software to convert an MOV to an MP4 file for mobile
Nero and Showtime	V8.2.8.0	Using the software to render a multimedia file (profile: portableavc_1min)
Gaming		
3DMark®06 (CPU)	v1.1.0	3DMark®06 hardware test sub-score
3DMark®06 (software)	v1.1.0	Running the 3DMark test using the CPU as the render engine for the vertex shaders, creating texture and lighting on surfaces inside the game.
Crysis (CPU)	v.1.1	
FEAR	v.1.08	
Unreal Tournament 3	v 1.1	
Quake 4	v1.4.2	In-game benchmark for this networked, multiplayer PC game.
Far Cry (Pier )	v1.4	In-game play-through scenario, simulating game play in this PC game.
World in conflict	v1.004	In-game play-through scenario, simulating game play in this PC game.
Enemy Territory-Quakewars	v1.4	In-game play-through scenario, simulating game play in this PC game.

# AMD System Configurations:

## Windows Vista with UMA Graphics



<b>Operating System</b>	
Name:	Microsoft Windows Vista32 Ultimate
Version:	RTM
Build #:	6000
DirectX Version:	Nov'07
<b>Processor</b>	AMD Phenom processors model 9850, 9750, 9650, 9600, 9550, 9500, 8600 and AMD Phenom processor engineering samples model 8450, 8650 and 8750.
<b>Hardware</b>	
Motherboard:	GA-MA78GM-S2H
BIOS Info:	F1 / F3c
Is BIOS publicly available?	X Yes No Unknown
<b>Chipset:</b>	AMD 780G
<b>Memory</b>	
Manufacturer & Type:	<b>Corsair CM2X1024-8500C5</b>
Quantity & Size: (each)/(MB)	Qty (2) 1024MB DIMM Module
Total Memory Size: (MB)	2 GIG total
<b>Hard Drive</b>	
	x1
Model Name:	Western Digital Raptor
Model Number:	<b>WD4000AAKS</b>
Hard Drive Size:	400GB
Transfer Mode:	SATA 7500 RPM
Other Info:	NTFS was used to format the hard disk
<b>Network Card</b>	
	Onboard
Manufacturer's Name:	Realtek
Model Number:	Realtek RTL8168C/8111C Family PCI-E Gigabit
<b>Sound Card</b>	
	Onboard
Manufacturer's Name:	Realtek
Model Number:	Realtek High Definition Audio
<b>Video: UMA</b>	
Graphics Adapter:	ATI Radeon HD 3200 Graphics
Memory Size (MB) and Type:	256 MB
<b>Drivers</b>	
Network Card	Publisher Name: Realtek Version: 6.200.1130.2007 Date if applicable: 11/30/2007
SATA Drivers	Publisher Name: Microsoft Version: 6.0.6000.16386 Date if applicable: 6/21/2006
Sound Card	Publisher Name: Realtek Semiconductor Corp. Version: 6.0.1.5532 Date if applicable: 12/20/2007
Video Card	Publisher Name: ATI Technologies Inc. Version: 8.453.0.0 Date if applicable: 1/22/2008
	Graphics Resolution: 1280x1024
	Color Depth: 32 bit Refresh Rate: 60Hz Texture Format: n/a
Other: (Specify any other special conditions or enhancements that are made to the system.)	Details: Cat 8.2 Drivers / Memory AUTO (5/5/18)

# Intel System Configurations: Windows Vista with UMA Graphics



<b>Operating System</b>	
Name:	Microsoft Windows Vista32 Ultimate
Version:	RTM
Build #:	6000
DirectX Version:	Nov'07
<b>Processor</b>	
<b>Hardware</b>	
Motherboard:	ASUS P5E-VM HDMI
BIOS Info:	405
Is BIOS publicly available?	Yes
Chipset:	G35 Express
<b>Memory</b>	
Manufacturer & Type:	Corsair CM2X1024-8500C5
Quantity & Size: (each)/(MB)	Qty (2) 1024MB DIMM Module
Total Memory Size: (MB)	2 GIG total
<b>Hard Drive</b>	
	x1
Model Name:	Western Digital Raptor
Model Number:	WD4000AAKS
Hard Drive Size:	400GB
Transfer Mode:	SATA 7500 RPM
Other Info:	NTFS was used to format the hard disk
<b>Network Card</b>	
	Onboard
Name:	Atheros
Model Number:	Atheros L1 Gigabit Ethernet 10/100/1000Base-T Controller
<b>Sound Card</b>	
Manufacturer's Name:	Intel
Model Number:	Intel® High Definition Audio HDMI
<b>Video Card</b>	
Graphics Adapter:	Intel® G35 Express Chipset Family
Memory Size (MB) and Type:	256 MB
<b>Drivers</b>	
SATA Drivers	Intel® ICH9 4 port Serial ATA Storage Controller 1-2920 Publisher Name: Intel Version: 8.3.0.1011 Date if applicable: 2/5/2007
Network Card	Publisher Name: Atheros Version: 2.4.6000.4 Date if applicable: 6/27/2007
Sound Card	Intel® Corporation Version: 6/10/0/2035 Date if applicable: 6/6/2007
Video Card	Publisher Name: Intel Corporation Version: 7.14.10.1409 Date if applicable: 1/2/2008 Graphics Resolution: 1280x1024 Color Depth: 32 bit Refresh Rate: 60Hz Texture Format: n/a
Other: (Specify any other special conditions or enhancements that are made to the system.)	Details: Memory Auto (5/5/5/18)